

Title (en)

Keratinic fibres dyeing process with an aminoindol associated with a quinone derivative.

Title (de)

Verfahren für die Keratin-Fasern-Färbung mit einem Aminoindol zusammen mit einem Chinonderivat.

Title (fr)

Procédé de teinture de fibres kératiniques avec un aminoindole associé à un dérivé quinonique.

Publication

**EP 0460996 A1 19911211 (FR)**

Application

**EP 91401371 A 19910529**

Priority

FR 9006660 A 19900529

Abstract (en)

Process for dyeing keratinous fibres, wherein at least one composition (A) containing at least one aminoindole in a medium suitable for dyeing is applied on these fibres, the application of the composition (A) being preceded or followed by the application of a composition (B) containing at least one quinone derivative chosen from ortho- or para-benzoquinones, ortho- or para-benzoquinone monoimines or diimines, 1,2- or 1,4-naphthoquinones, ortho- or para-benzoquinone sulphonimides, alpha , omega -alkylene bis(1,4-benzoquinones) or 1,2- or 1,4-naphthoquinone monoimines or diimines in a medium suitable for dyeing, the aminoindoles and the quinone derivatives being chosen in such a way that the difference in oxidation-reduction potential DELTA E between the oxidation-reduction potential  $E_i$  of the aminoindoles, determined at pH 7 in a phosphate medium with a vitreous carbon electrode by voltammetry, and the oxidation-reduction potential  $E_q$  of the quinone derivative, determined at pH 7 in phosphate medium by polarography with a mercury electrode relative to the saturated calomel electrode, is such that:  $DELTA E = E_i - E_q \leq 470$  mV.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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- [XP] EP 0376776 A2 19900704 - OREAL [FR]
- [A] FR 2626173 A1 19890728 - OREAL [FR]

Cited by

US5752982A; EP0560682A1; FR2688500A1; EP0565417A1; FR2689898A1; EP0560683A1; FR2688501A1; EP0560684A1; FR2688502A1; EP2532650A3; US7070625B2; US7812036B2; US9701639B2; US9751839B2; WO03042199A1; WO9428862A1; WO9217157A1; US9670163B2; US9931334B2; US10537565B2; US11291662B2; US10646481B2; US10272046B2; US11147770B2; US11752106B2

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